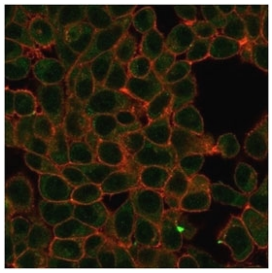
HIC2 Antibody / Transcriptional Regulation Marker [clone PCRP-HIC2-1B1] (V9644)

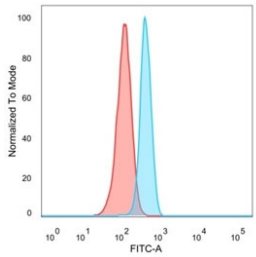
Catalog No.	Formulation	Size
V9644-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9644-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9644SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

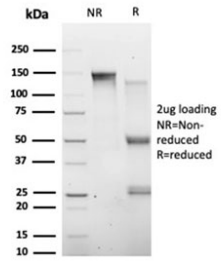
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-HIC2-1B1
Purity	Protein A/G affinity
UniProt	Q96JB3
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This HIC2 Antibody / Transcriptional Regulation Marker is available for research use only.



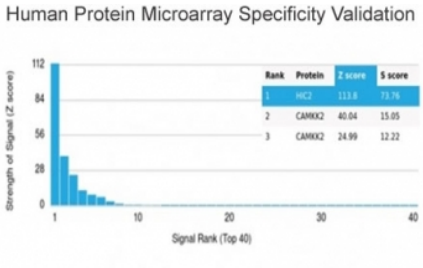
HIC2 Antibody HeLa IF. Immunofluorescence analysis of PFA-fixed human HeLa cells stained with HIC2 Antibody / Transcriptional Regulation Marker (green, clone PCRP-HIC2-1B1) and phalloidin cytoskeletal stain (red). Hypermethylated in cancer protein 2 / HIC2 demonstrates predominantly nuclear and perinuclear staining in human HeLa cells, consistent with the intracellular distribution expected for a zinc finger transcription-associated regulatory protein involved in developmental signaling and nuclear gene expression control.



HIC2 Antibody HeLa FACS. Flow cytometry analysis of PFA-fixed human HeLa cells stained with HIC2 Antibody / Transcriptional Regulation Marker (blue, clone PCRP-HIC2-1B1). Isotype control cells are shown in red. The distinct fluorescence shift supports detection of endogenous Hypermethylated in cancer protein 2 / HIC2 expression in HeLa cells, consistent with the broad intracellular distribution expected for a zinc finger transcription-associated regulatory protein involved in nuclear gene expression control and developmental signaling pathways.



SDS-PAGE analysis of purified, BSA-free HIC2 antibody (clone PCRP-HIC2-1B1) as confirmation of integrity and purity.



HIC2 Antibody HuProt Microarray Specificity Validation. Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using HIC2 Antibody / Transcriptional Regulation Marker clone PCRP-HIC2-1B1 demonstrates highly selective recognition of Hypermethylated in cancer protein 2 / HIC2. The intended HIC2 target ranks first among all proteins analyzed on the array, with exceptionally strong separation from secondary signals, supporting the specificity profile of this mouse monoclonal antibody for transcriptional regulation and nuclear signaling research applications. Z-score represents signal intensity above background in standard deviation units, while S-score reflects the relative specificity of antibody binding compared with additional proteins present on the HuProt(TM) platform.

Description

Hypermethylated in cancer protein 2 (HIC2) is a zinc finger transcription-associated regulatory protein involved in developmental signaling, nuclear gene expression control, and differentiation-associated transcriptional pathways. HIC2 Antibody / Transcriptional Regulation Marker is suitable for investigations involving nuclear regulatory proteins, transcriptional repression mechanisms, and chromatin-associated signaling pathways. HIC2 belongs to the HIC family of zinc finger transcriptional regulators that participate in coordinated control of developmental and cellular gene expression programs.

HIC2 antibody, also referred to as Hypermethylated in cancer 2 antibody, Zinc finger transcription factor HIC2 antibody, and HIC family transcriptional regulator antibody in the literature, recognizes a nuclear-associated regulatory protein implicated in transcriptional modulation and developmental signaling processes. HIC family proteins contain characteristic zinc finger domains associated with DNA-binding regulatory activity and are commonly linked to transcriptional repression pathways. Through interactions with transcription-associated complexes and chromatin regulatory machinery, HIC2 contributes to coordinated regulation of gene expression and cellular differentiation programs.

Transcription-associated zinc finger proteins such as HIC2 participate in pathways controlling tissue development, cellular identity, and adaptive transcriptional responses. HIC2 has been implicated in developmental regulatory networks and nuclear signaling pathways that coordinate lineage-associated gene expression patterns. The protein is primarily localized within the nucleus, consistent with its role as a transcription-associated regulatory factor involved in chromatin-associated gene expression control.

Members of the HIC protein family have been investigated in developmental biology, differentiation-associated signaling, and transcriptional repression pathways linked to epigenetic regulation. Altered expression of nuclear regulatory proteins may contribute to abnormal transcriptional remodeling, dysregulated differentiation, and disease-associated signaling

changes. Because HIC2 functions within broader transcriptional regulatory networks, this target remains relevant for studies examining developmental gene expression, nuclear signaling pathways, and chromatin-associated regulatory mechanisms.

Immunofluorescence and flow cytometry analyses support detection of endogenous HIC2 expression across multiple research applications. HuProt(TM) protein microarray specificity validation with clone PCRP-HIC2-1B1 further demonstrates highly selective recognition of HIC2 among more than 19,000 full-length human proteins. The combined validation profile supports use of this mouse monoclonal antibody for investigations involving transcriptional regulation, zinc finger transcription factors, developmental signaling pathways, and nuclear gene expression control.

An antibody targeting HIC2 can therefore support studies involving transcriptional repression complexes, developmental signaling networks, nuclear differentiation pathways, chromatin-associated regulatory proteins, and zinc finger transcription factor biology.

HIC2 functions in nuclear transcriptional regulation and developmental signaling pathways; explore related regulatory proteins and cellular pathway targets on our Cell Biology Antibodies landing page.

Application Notes

Optimal dilution of the HIC2 Antibody / Transcriptional Regulation Marker should be determined by the researcher.

Immunogen

Recombinant full-length human Hypermethylated in cancer protein 2 was used as the immunogen for the HIC2 antibody.

Storage

Aliquot the HIC2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

HIC2 antibody, Hypermethylated in cancer 2 antibody, Zinc finger transcription factor HIC2 antibody, HIC family transcriptional regulator antibody, Transcriptional repressor HIC2 antibody